Broadband Initiatives in Southern and Southwestern Virginia

Presented:

September 18, 2006

Cabinet Community Day

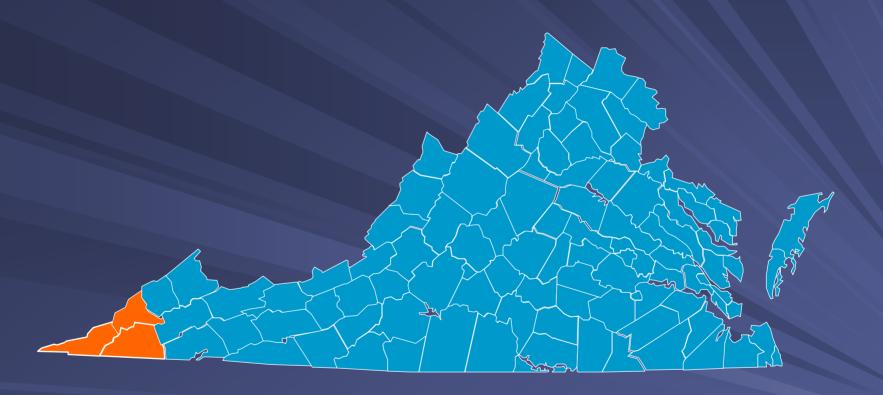
Southwest Virginia

UVA-Wise

Making it Happen

- LENOWISCO Planning District
- Cumberland Plateau Planning District
- Bristol Virginia Utilities
- Citizens
- Mid-Atlantic Broadband Cooperative

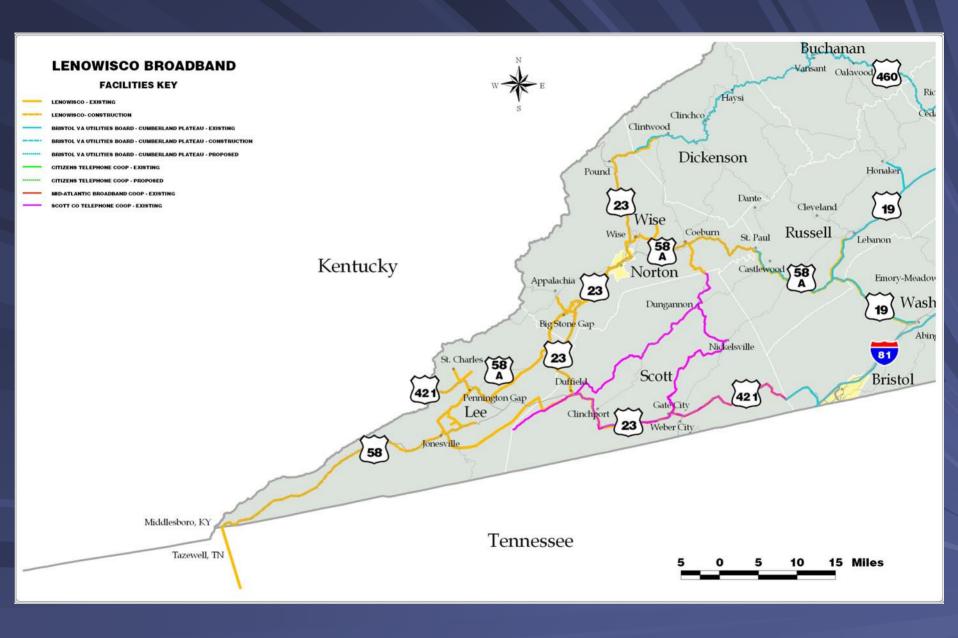
LENOWISCO



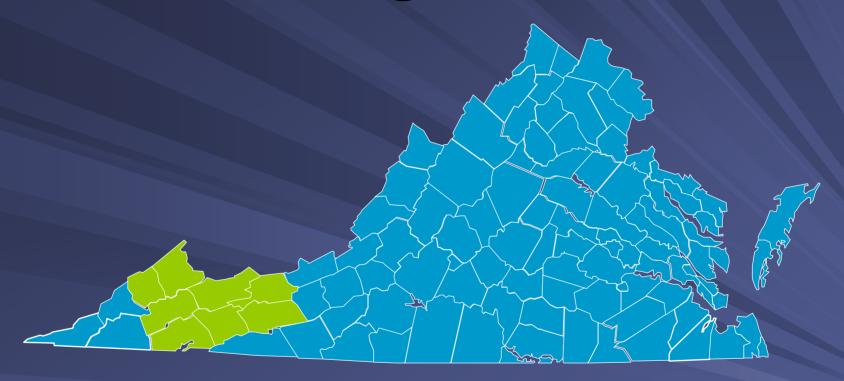


LENOWISCO Rural Area Network

- I 44 miles of fiber backbone (in place or under construction) plus distribution fiber
- Backbone passes 29,666 households and businesses
- Active GigE Switched Network providing multipoint to multipoint connectivity.
- Public/Private partnerships with private vendors to construct and operate
- Support FTTH for quality of life, cottage industry, and local political support reasons
- Self-sustaining no growth positive cash flow at the end of March 2007
- Over 100 customers served with 225 on waiting list
- \$7.8 million dollar investment (local, state, federal)



Cumberland Plateau Bristol Virginia Utilities







Cumberland Plateau Company Fiber-to-the-Business Infrastructure from Abingdon to Richlands

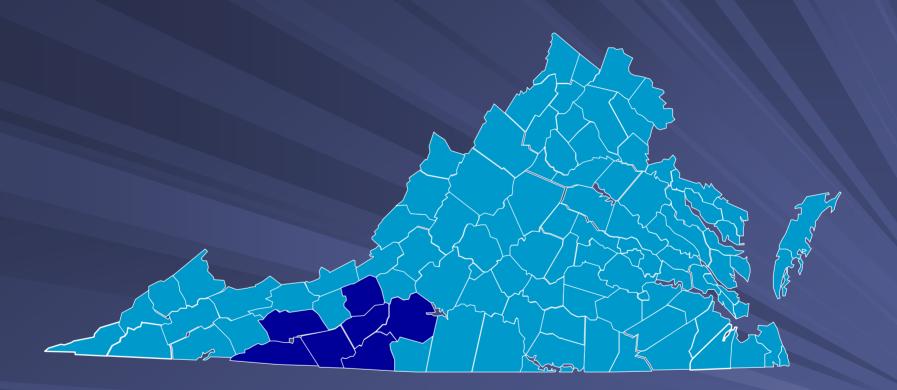
- 77 miles of fiber in Washington, Russell and Tazewell Counties
- Offering triple play (voice, video and broadband data services)
- Eight miles of fiber in Town of Richlands
- Service to four local governments, two hospitals and two school systems
- Over 400 commercial and industrial customers passed along the route
- \$25,695 per month in recurring revenue

Bristol Virginia Utilities OptiNet Network

- Voice/Data Backbone built on multiple 2.5Gbps self-healing resilient packet rings (RPR)
- Over 850 miles of fiber plant and 24x7 Network Operations Center
- Data Center w/co-location space and disaster recovery facilities
- Access networks consist of two architectures:
 - Passive Optical Network (ideal for voice data and CATV to business and residential customers)
 - Private Ethernet (ideal for transparent LAN applications and highbandwidth IP-based services)
- In excess of 7,000 total customers (895 commercial/industrial, 6,270 residential, 6,000 telephone)
 - 64% Broadband Penetration (4,560 customers)
 - 6,158 CATV Customers
- Customers include six school systems, three Social Service Networks, two community colleges and 15 industrial parks.
- BVU has invested \$50 million to build this carrier class network infrastructure



Citizens



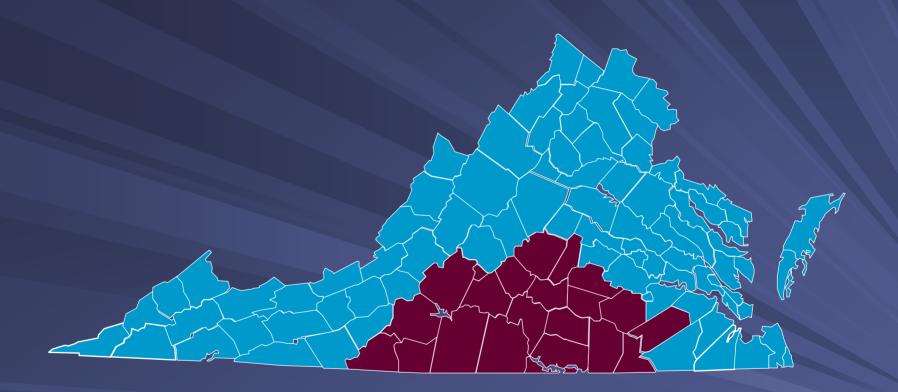


The Citizens Network

- Serve over 20,000 customers in 17 counties.
- Over 875 route miles of cable with over \$19 million invested in our telephone facilities.
- Offer long distance, high-speed internet, dial-up internet, and cable television
- Tobacco Regional Access Connection leverages Citizens existing fiber network to complete a core southern route through Virginia.
- A distribution fiber network is being deployed that will extend access to many small communities and eventually to individual premises
- ■The goal is to enable the Tobacco Region inhabitants to compete in the global information age economy with broadband or high speed data service.



Mid-Atlantic Broadband Coop





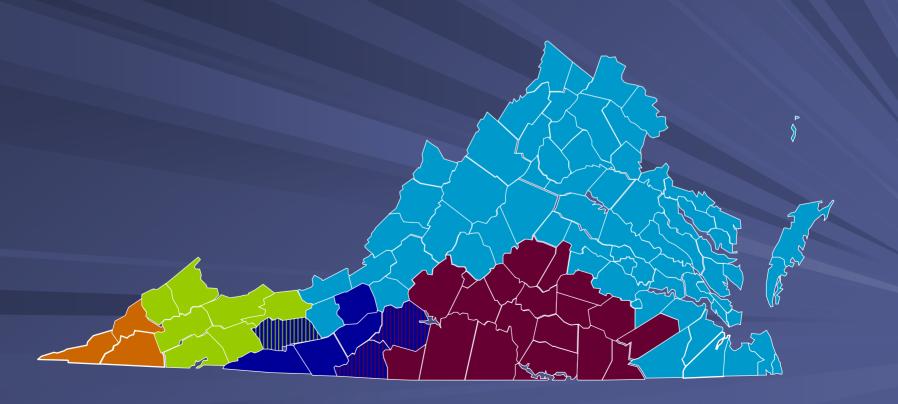
The Mid-Atlantic Broadband Coop Network

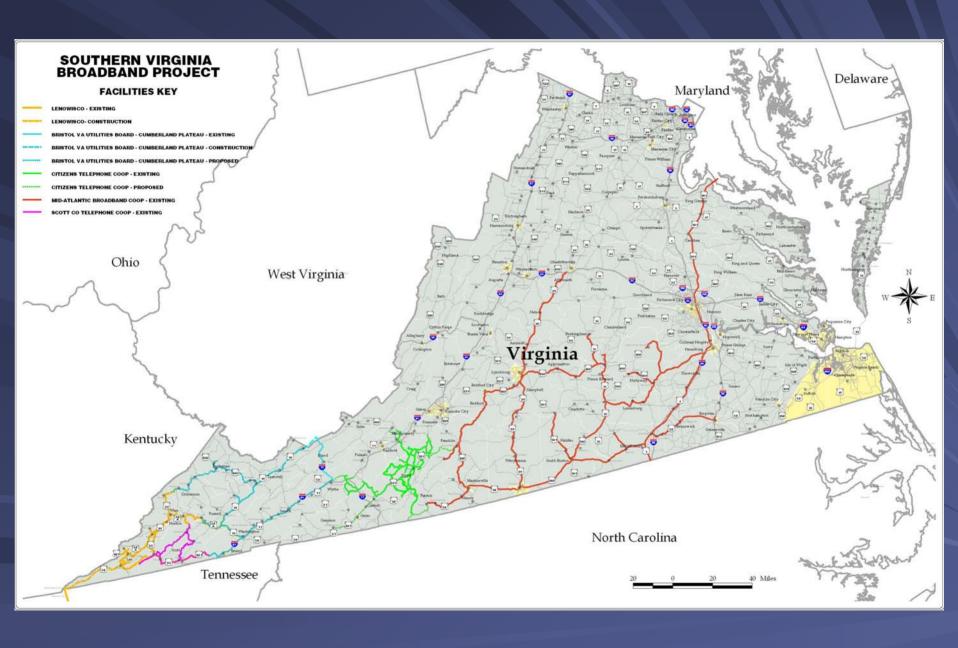
- 700+ miles advanced open-access fiber network in 20 county region of Southside
- 60+ business and industrial parks connected
- MBC Owns Long Haul Infrastructure to Atlanta and Washington, DC
- Wholesale network dedicated to open-access connectivity for the private sector



Working Together for a Brighter Future

Success Stories





Southside Success Stories

- Built foundation for technology growth in the region
- Centra Health Connectivity: Benefits to Farmville, Virginia
- Large Pharmaceutical Company using MBC for locating disaster recovery network: Southside, VA is the only site in their worldwide operations that has this capability.
- Highly engaged technology entrepreneurs working with MBC and communities

Southwest Success Stories

- In excess of 1,100 new jobs
 - KCG call center in Pennington Gap (100)
 - Results call center in Duffield (170)
 - Medical facility in Duffield (pending)
 - CGI-AMS in Lebanon 350
 - VITA Data Center in Lebanon 433
 - Crutchfield (retained) 130

Both Northrop Grumman and CGI-AMS indicated that a primary reason for selecting Southwest Virginia was the recently installed telecommunications infrastructure

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